CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

AE.2 14/7 AEE

14th June 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.J)
Quality Manager

AE

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.
Name of Agency	Sri. G. Venkategowda.
Date of Testing	14/06/2016
Specific Gravity	2.64
Water Absorption	0.34%
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	98.4	95-100	
10	42.3	25-55	
4.75	7.6	0-10	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Khushboo

(KHUSHBOO L)
Quality Manager

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. G. Venkategowda.
Date of Testing	14/06/2016

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	485	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

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(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.
Name of Agency	Sri. G. Venkategowda.
Date of Testing	14/06/2016
Specific Gravity	**2.61**
Water Absorption	**3.60 %**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
Manufactured Sand	10	**100**	100	100	100	100	II	Satisfies the requirements
	4.75	**97.3**	90-100	90-100	90-100	95-100		
	2.36	**86.5**	60-95	75-100	85-100	95-100		
	1.18	**67.2**	30-70	55-90	75-100	90-100		
	0.6	**52.3**	15-34	35-59	60-79	80-100		
	0.3	**27.4**	5-20	8-30	12-40	15-50		
	0.15	**19.1**	**0-20***	**0-20***	**0-20***	**0-20***		

► ***For Crushed Stone Sand (Manufactured Sand - M-Sand) the permissible % passing on upper limit for 150µ IS Sieve is increased from 10 for Zone I,II,III & 15 for Zone IV, to 20%**

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(KHUSHBOO L.)
Quality Manager

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 16 mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.
Name of the Agency	Sri. G. Venkategowda.
Date of testing	14/06/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.6	1.58	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.2	12	Satisfactory
5	Yield Stress(N/Sq.mm)	513	500	Satisfactory
6	U T S (N/Sq.mm)	570	545	Satisfactory

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(KHUSHBOO I.)
Quality Manager

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T-2654

To,

Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP.

AE.2
Yelahanka
20/7

25th July 2016

Dear Sir,

Sub: Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.
Name of Agency	Sri. G. Venkategowda.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample 3	150.13 X 150.15 X 150.0	22542	27/06/2016	25/07/2016	28	8.18	495	**22.00**	**22.22**
2		150.15 X 150.16 X 150.0	22547				8.19	500	**22.22**	
3		150.14 X 150.13 X 150.0	22541				8.21	505	**22.44**	

Note:

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(KHUSHBOO L)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.
Name of Agency	Sri. G. Venkategowda.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.10 X 150.14 X 150.0	22536	27/06/2016	25/07/2016	28	8.19	500	**22.22**	**22.44**
2		150.13 X 150.12 X 150.0	22538				8.20	505	**22.44**	
3		150.15 X 150.16 X 150.0	22547				8.21	510	**22.67**	

Note:

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP.
Name of Work	Construction of RCC drain at 1st & 2nd cross roads western side & Eastern side of Kamashamma layout in ward no. 02 of Yelahanka Sub Division.
Name of Agency	Sri. G. Venkategowda.
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	150.13 X 150.15 X 150.0	22542	27/06/2016	25/07/2016	28	8.18	495	**22.00**	**22.30**
2		150.12 X 150.14 X 150.0	22539				8.19	500	**22.22**	
3		150.16 X 150.17 X 150.0	22550				8.20	510	**22.67**	

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(KHUSHBOO D.)
Quality Manager

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